

Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~Process~~ A method for managing isochronous resources in a communication network comprising at least two communication buses linked by way of a wireless transmission bridge, the bridge comprising for each bus a real portal connected to ~~[[this]]~~ its respective bus, each portal being furnished with wireless communication means, wherein the ~~process~~ method comprises the steps of:
 - ~~modelling~~ modeling the wireless bridge by each real portal in the form of virtual buses and virtual ~~bridges~~ portals, ~~each virtual bridge comprising two~~ so that the modeled wireless bridge comprises only virtual bridges with a maximum of two virtual portals;
 - emulating a global register of passband availability for the set of wireless links of the wireless bridge;
 - reserving passband with the global register for the virtual buses representing each wireless link participating in a communication between two real portals.
2. (Currently Amended) ~~Process~~ The method according to Claim 1, wherein a wireless link is ~~modelled~~ modeled in the form of a virtual bridge.
3. (Currently Amended) ~~Process~~ The method according to Claim 1, wherein a wireless link is ~~modelled~~ modeled in the form of a virtual bus.
4. (Currently Amended) ~~Process~~ The method according to Claim 1, wherein a group of wireless links linking a group of portals having complete connectivity ~~within a bigger network with partial connectivity~~ is modeled in the form of a single virtual bus.

5. (Currently Amended) ~~Process~~ The method according to Claim 3, wherein each real portal emulates;

- a virtual portal forming together with the real portal a bridge linking the communication bus connected to the real portal to a virtual so-called internal bus also emulated by the real portal;
- a virtual bridge for each wireless link with another real portal.

6. (Currently Amended) ~~Process~~ The method according to Claim 2, wherein each real portal emulates:

- a virtual portal forming together with the real portal a bridge linking the communication bus connected to the real portal to a virtual so-called internal bus also emulated by the real portal;
- a virtual portal for each wireless link with other portals of the wireless bridge, two virtual portals corresponding to the same wireless link between two real portals forming a virtual bridge representing the wireless link.

7. (Currently Amended) ~~Process~~ The method according to Claim 4, ~~wherein it furthermore comprises~~ further comprising the step of eliminating an internal bus and virtual portals connected thereto, and of contracting into a bridge the two orphan portals thus created, in the case where the real portal comprising the internal bus forms part of a single wireless link.

8. (Currently Amended) ~~Process~~ The method according to Claim 1, ~~wherein it furthermore comprises~~ further comprising the step of determining, by each real portal, the set of wireless links between the real portals.

9. (Currently Amended) ~~Process~~ The method according to Claim 8, wherein the step of determining the set of wireless links comprises the steps of:

- identifying, by each real portal, the other real portals whose data reach it directly;
- transmission destined for all the other real portals of the wireless network, of the list of real portals with which a direct link exists;
- reception of the list compiled by each of the other portals.

10. (Currently Amended) ~~Process~~ The method according to Claim 1, ~~wherein it also comprises~~ further comprising the step of emulating a register of availability of isochronous channels for each virtual bus.

11. (Currently Amended) ~~Process~~ The method according to Claim 1, wherein the step of reserving passband with the global register comprises the ~~instigating~~ sending of a request for reserving passband ~~[[with]]~~ to a manager of isochronous resources of a virtual bus and for transmitting the request by the said manager of isochronous resources of the virtual bus to a software module managing the global register of passband availability.

12. (Currently Amended) ~~Process~~ The method according to Claim 1, wherein the bridge comprises at least three portals.

13. (New) A method for managing isochronous resources in a communication network comprising more than two communication buses linked by way of a wireless transmission bridge, the bridge comprising for each bus a portal connected to this bus, each portal being provided with wireless communication means, the method comprising the steps of:

- providing a global register of passband availability for the set of wireless links of the wireless bridge;
- reserving passband with the global register for each wireless link participating in a communication between two portals.